

MEMO

DATE: October 9, 2003

TO: Energy and Environment Committee

FROM: Charles Keynejad, Senior Regional Planner
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Environmental Planning Division
Department of Planning and Policy

RE: Transportation Conformity Report - Draft 2004 RTP
(Information Only)

RECOMMENDED ACTION: Receive and File

SUMMARY: SCAG has completed the Draft 2004 Regional Transportation Plan (RTP), including its transportation polices, programs, and projects. The Transportation Conformity Report for the Draft 2004 RTP is being completed. The preliminary analysis has produced a positive finding for the most part of the region. As of the date of this Memorandum, SCAG is working with the respective state and local air agencies to complete the conformity portion for Ventura County and the Southeast Desert Modified Ozone area.

BACKGROUND:

In the federally designated non-attainment and maintenance areas, the Metropolitan Planning Organizations (MPOs) are required to make conformity finding before approving any new Regional Transportation Plan (RTP), Transportation Improvement Program (TIP), or transportation project. With the exception of a less populated area in the eastern portion of Riverside County, the rest of the SCAG region is situated in one or more federal non-attainment areas.

To obtain the federal approval, the 2004 RTP must comply with the following requirements: the Environmental Protection Agency (EPA) Transportation Conformity Rule (40 CFR Parts 51 and 93, published on August 15, 1997), all court-related cases, and the U. S. Department of Transportation's Transportation Equity Act for the 21st Century (TEA- 21, Planning Regulations). Additionally, it must conform to the goals and objectives of the applicable State Implementation Plans (SIPs) developed for improving the air quality in the SCAG region. The applicable SIP is the one approved by EPA.

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Under EPA's Transportation Conformity Rule requirements, the Draft 2004 RTP must pass the following analysis and tests:

- Regional Emission Analysis
(Sections 93.109, 93.110, 93.118, and 93.119)
- Timely Implementation of TCMs Analysis
(Section 93.113)
- Financial Constraint Analysis
(Section 93.108)
- Interagency Consultation and Public Involvement Analysis
(Sections 93.105 and 93.112)

Regional Emission Analysis and Tests

One of the essential tests for conformity finding of the Draft 2004 RTP is the regional emissions analysis. The regional emissions analysis should be conducted by non-attainment area / by pollutant and should conform to the applicable emissions budgets. The applicable emissions budgets are those approved or found adequate for conformity by EPA. In the absence of the applicable emissions budgets, the regional emission tests for conformity finding are based on the build/no-build tests. It means that the full implementation of the 2004 RTP (build) would generate less emission than not implementing it (no-build).

The air districts and the California Air Resources Board (ARB) are responsible for completion of the 2003 Air Quality Management Plans (AQMPs) / the 2003 State Implementation Plans (SIPs). In the SCAG region, there are 11 federal non-attainment/maintenance areas. The following tables show the status of the 2003 emissions budgets and the type of regional emission analysis needed for conformity finding in each non-attainment area in the SCAG region.

2003 SIPs (Emissions Budgets) and Needed Regional Emission Analysis

Air Basin/Non-attainment Area	Pollutant	Regional Emission Analysis	SIP/AQMP Status (Emissions Budgets)
SCAB	Ozone, CO NO ₂ , PM ₁₀	Budget tests	SIPs approved by SCAQMD (8/01/03) ARB action scheduled in October 2003
Ventura County (SCCAB)	Ozone	Budget tests	Being completed by VCAPCD/ARB
<u>Southeast Desert Modified</u> Antelope Valley (MDAB) San Bernardino Co. (MDAB) Coachella Valley (SSAB)	Ozone	Budget tests	Data being completed by the air districts and ARB. A single set of emissions budgets for the three areas is being completed by ARB.
San Bernardino Co. (MDAB)	PM ₁₀	Build/no-build tests	No SIP scheduled for this area
Searles Valley (MDAB)	PM ₁₀	Build/no-build tests	No SIP scheduled for this area
Coachella Valley (SSAB)	PM ₁₀	Budget tests	SIP approved by SCAQMD (8/01/03) ARB action scheduled in October 2003
Imperial Co. (SSAB)	PM ₁₀	Build/no-build tests	A SIP will be developed in future in compliance with the court ruling
Imperial Co. (SSAB)	Ozone	Build/no-build tests	No SIP required for this area

SCAB: South Coast Air Basin, SCCAB: South Central Coast Air Basin, MDAB: Mojave Desert Air Basin, SSAB: Salton Sea Air Basin – SCAQMD: South Coast Air Quality Management District, VCAPCD: Ventura County Air Pollution Control District

The federally required regional emissions analyses for conformity finding of the Draft 2004 RTP are tabulated and included at the end of this Memorandum.

Timely Implementation of TCMs

Another important conformity test is the Timely Implementation of Transportation Control Measures (TCMs). To pass the test, all TCM projects subject to reporting must be fully funded and on schedule. In the SCAG region, two areas have ozone SIPs with TCMs:

- The 2003 Ozone AQMP/SIP for the SCAB area
- The 2003 Ozone AQMP/SIP for the Ventura County portion of SCCAB

SCAB's 2003 Ozone AQMP/SIP

The SCAB area TCM categories are listed in the Appendix IV-C of the 2003 Ozone Air Quality Management Plan (AQMP) which was approved by the South Coast Air Quality Management District (SCAQMD) on August 1, 2003. The California Air Resources Board (ARB) plans to take action on October 23, 2003.

The TCM categories are listed below. Any project in the SCAB area listed in the SCAG RTP and RTIP and consistent with the TCM categories is considered a TCM. It is the responsibility of the project sponsor to fully implement its TCM project. Otherwise, it must be substituted with another TCM project.

TCM Categories

- High Occupancy Vehicle Measures
- Transit and System Management Measures
- Information-based Transportation Strategies

In the SCAB area, reporting on Timely Implementation of TCMs for conformity finding is based on reporting on the TCMs listed in the first two years of the 2002 Regional Transportation Improvement Program (RTIP). For the conformity finding of the 2004 RTP, the County Transportation Commissions (CTCs) in the SCAB area provide SCAG with the status of all TCM projects listed in the fiscal years 2002/03 and 2003/04 of the 2002 RTIP.

Ventura County Portion of SCCAB's 2003 Ozone AQMP/SIP

The Ventura County Air Pollution Control District (VCAPCD) is in the process of completing the 2003 Ozone AQMP/SIP. It is based on the current 1994 Ozone AQMP/SIP with a limited revision. This is to incorporate new motor vehicle emission budgets based on the latest motor vehicle emissions model, EMFAC2002.

The 2003 AQMP/SIP revision makes no changes to previously approved transportation control measures (TCMs) contained in the 1994 SIP and continues to expeditiously implement these TCMs through the Congestion Mitigation and Air Quality Improvement (CMAQ) program, the

Surface Transportation Program (STP) and other federal transportation and transit programs. The applicable TCMs in Ventura County continue to include the following strategies:

- TCM A - Ridesharing Strategies
 - A.1. Carpooling, Vanpooling, Buspooling
 - A.2. Modified Work Schedules
 - A.3. Park and Ride Lots
- TCM B – Non-motorized Strategies
 - B.1. Telecommunications
 - B.2. Bicycle and Pedestrian Facilities
- TCM C - Traffic Flow Improvement Strategy
- TCM D - Land Use Strategy
- TCM E - Transit Strategies
 - E.1. Public Transit Programs
 - E.2. Transit/Land Use Planning
 - E.3. Passenger Rail

The 2003 Ozone SIP does not claim emission reduction credits from these TCMs. They have been included primarily to assist transportation and air quality agencies identify projects that have the potential of reducing vehicle emissions, vehicle trips and vehicle miles traveled (VMT).

In Ventura County, reporting on Timely Implementation of TCMs for conformity finding is based on reporting on the TCM projects listed in the 2002 RTIP for the fiscal years 2002/03 and 2003/04. The Ventura County Transportation Commission (VCTC) and VCAPD provide SCAG with the status of all TCM projects in Ventura County.

Financial Constraint

The Draft 2004 RTP is financed by various funding sources (federal, state, and local) and is financially constrained.

Interagency Consultation and Public Involvement

The Draft 2004 RTP is being circulated for a public review and comment period. The Draft RTP has been placed on the agendas for discussion at many meetings of Policy Committees, Task Forces, Technical Advisory Committees, Working Groups (including Transportation Conformity Working Group and Modeling Task Force), and Sub-regional Coordinators' Group for interagency consultation. A public hearing is scheduled in January 2004, and the Final 2004 RTP is scheduled for SCAG's Regional Council in early April 2004.

The Committee members will be updated at the November meeting on any additional progress on the Transportation Conformity Report for the Draft 2004 RTP.

Required Regional Emissions Analysis for Conformity Finding

South Coast Air Basin (SCAB)

Ozone Emissions Analysis (tons/day) Summer Temperatures - SCAB						
Ozone Precursor		2005	2008	2010	2020	2030
ROG (VOC)	Budget	263	216	156	156	156
	Draft 2004 RTP					
NO _x	Budget	546	464	364	364	364
	Draft 2004 RTP					

Regional emissions budget generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget (2010 – attainment year) – Emissions budgets based on the SCAQMD approved 2003 AQMP/SIP (8/01/03)

Nitrogen Dioxide (NO ₂) Emissions Analysis (tons/day) Winter Temperatures - SCAB					
NO ₂ Precursor		2003	2010	2020	2030
NO _x	Budget	686	686	686	686
	Draft 2004 RTP				

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget. (1994 - attainment year) - Emissions budgets based on the SCAQMD approved 2003 AQMP/SIP (8/01/03)

Carbon Monoxide (CO) Emissions Analysis (tons/day)					
Winter Temperatures - SCAB					
CO	2002	2005	2010	2020	2030
Budget	3,361	3,361	3,361	3,361	3,361
Draft 2004 RTP					

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget. (2000 – attainment year) - Emissions budgets based on the SCAQMD approved 2003 AQMP (8/01/03)

Particulate Matter (PM ₁₀) Emissions Analysis (tons/day) Annual Average Temperatures - SCAB						
PM ₁₀ Precursor		2003	2006	2010	2020	2030
ROG (VOC)	Budget	311	251	251	251	251
	Draft 2004 RTP					
NO _x	Budget	635	549	549	549	549
	Draft 2004 RTP					
Primary (PM)	Budget	168	166	166	166	166
	Draft 2004 RTP					

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget. (2006 – attainment year) - Emissions budgets based on the SCAQMD approved 2003 AQMP (8/01/03)

Note: For primary PM₁₀ precursor, the 2003 PM₁₀ AQMP allows use of the Backstop Measure (TCB-01) for additional regional emission reductions beyond the attainment year - not exceeding 9 tons/day and 16 t/d in the years 2020 and 2030 respectively.

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Ventura County - South Central Coast Air Basin (VC/SCCAB)

Ozone (tons/day) Summer Temperatures - SCCAB-Ventura County					
Ozone Precursors		2005	2010	2020	2030
ROG (VOC)	Budget				
	Draft 2004 RTP				
NO _x	Budget				
	Draft 2004 RTP				

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget.
(2005 – attainment year)

Mojave Desert Air Basin (MDAB)

Particulate Matter (PM ₁₀) Emissions Analysis (tons/day) Annual Average Temperatures MDAB San Bernardino County (excluding Searles Valley)				
Particulate Matter (PM ₁₀)	2005	2010	2020	2030
Build				
No-build				

Regional emissions generated using EMFAC 2002. To pass, build emission must be less than no-build.
(2000 – attainment year)

Particulate Matter (PM ₁₀) Emissions Analysis (tons/day) Annual Average Temperatures MDAB - Searles Valley				
Particulate Matter (PM ₁₀)	2005	2010	2020	2030
Build				
No-build				

Regional emissions generated using EMFAC 2002. To pass, build emission must be less than no-build.
(1994 – attainment year)

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Southeast Desert Modified Area (MDAB/SSAB)

Ozone (tons/day) Summer Temperatures MDAB/SSAB * - (Southeast Desert Modified Area)		2005	2007	2010	2020	2030
Ozone Precursor						
ROG	Budget					
	Draft 2004 RTP					
NO _x	Budget					
	Draft 2004 RTP					

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget.

(2007 – attainment year) (*): This federally designated Ozone non-attainment area covers three separate but contiguous areas: The Antelope Valley portion of MDAB, the San Bernardino County portion of MDAB, and the Coachella Valley portion of SSAB. The conformity analyses are based on comparing SCAG's regional transportation emissions with a single set of emissions budgets. The emissions budgets provided to SCAG by ARB for this area based on the information provided to ARB by the air districts.

Salton Sea Air Basin (SSAB)

Particulate Matter (PM ₁₀) Emissions Analysis (tons/day) Annual Average Temperatures SSAB - Riverside County (Coachella Valley)					
PM ₁₀	2003	2006	2010	2020	2030
Budget	12.3	10.9	10.9	10.9	10.9
Draft 2004 RTP					

Regional emissions generated using EMFAC 2002. To pass, RTP emissions must be equal or less than budget.

(2006 – attainment year) - Emissions budgets based on the SCAQMD approved 2003 AQMP (8/01/03)

Ozone Emissions Analysis (tons/day) Summer Temperatures SSAB - Imperial County					
		2005	2010	2020	2030
ROG (VOC)	Build				
	No-build				
NO _x	Build				
	No-build				

Regional emissions generated using EMFAC 2002. To pass, build emission must be less than the 1990 base year or the no-build.

Particulate Matter (PM ₁₀) Emissions Analysis (tons/day) Annual Average Temperatures Imperial County					
PM ₁₀	1994	2005	2010	2020	2030
Build					
No-build					

Regional emissions generated using EMFAC 2002. To pass, build emission must be less than no-build. (1994 – attainment year).

